THE RARS -EXCITER-

RALEIGH AMATEUR RADIO SOCIETY — WORLDWIDE FRIENDSHIP

CLUB CALL: W4DW — REPEATER: W4DW/R 146.04/64

JUNE, 1987 — ISSUE 207

LEADING EDGE

SHERMAN STARNES
W4TZU

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It was expected that OSCAR-10 would be released for cautious use by the first of May, but some uncertainty over the power system has delayed that event until the middle of the month. It is not known if the conditions observed indicate something as simple as the auxiliary battery being placed on line or something more sinister. The behavior of the transponder is about the only indication of conditions aboard the spacecraft. The beacon is on but it is a steady carrier, conveying almost nothing to help determine the health of the satellite.

When operation through the OSCAR-10 transponder is approved, a great deal of cooperation is going to be needed from all who wish to operate through it. Without the on-board computer to keep up with things, it will be up to users to pay close attention to bulletins and limit operation through the satellite to the specified times. Of course, the absolute minimum power needed for communication is to be the order of the day.

Myriad problems continue to hamper progress in the French Ariane rocket development and launch schedule. It has now been a year since the last flight when a problem developed with the third stage ignition system. While undergoing tests in a vacuum chamber facility in France, the third stage motor for the next scheduled flight was damaged in a mishandling incident. The motor for the next subsequent flight was substituted but experienced overheating of a turbopump bearing system. These incidents have created absolute uncertainty in the schedule but AMSAT clings to the hope for an early 1988 launch of the Phase 3C spacecraft.

They say that the Soviet space station, Mir, is highly visible if it passes over between 15 and 90 minutes after sunset or 15 and 90 minutes before sunrise. It now consists of the station, a Soyuz TM spacecraft and the astrophysics lab named Kvant. The docking of the lab was aborted due to a cloth bag which fouled the docking mechanism. It could have been a parts bag or a protective cover that the ground crew failed to remove before launch. At any rate, the two cosmonauts went outside and retrieved the object and the docking was accomplished remotely by ground controllers. The Cosmonauts continue frequent use of 143.625 MHz. for communications with the ground. They say the transmitter is powerful and can easily be heard on an HT.

MINUTES OF THE MEETING

The regular monthly meeting of the Raleigh Amateur Radio Society was held May 6, 1987 at the First Presbyterian Church, S. Salisbury St. President Bruce Eggers, WA9NEW, called the meeting to order and welcomed the 58 members and 17 guests.

Bruce told all about the success of the training classes at Wake Tech. Six people passed the novice exam April 9. Five of them took tech. on April 12 and all passed. Four classmembers are retaking the test tonight. A round of applause was given to all thoes involved in teaching the class.

The next item on the adjenda was a presentation of two synthesized dash mount 2M radios from Aerotron to the Skywarn Net. Tony Gorse, national sales manager for Aerotron, presented the equipment to Reed Whitten, AB4W, on behalf of Skywarn. Also contributing to the event were: Ed Alderman, WA4PEN, who was primarily responsible for the gift, Jerry Stuckle, AI0K, our Skywarn EC and Dennis Decker, KB4TYM, from Nat. Weather Service at RDU airport.

Review of April Board Meeting: The group discussed details of the hamfest and authorized up to $1500. towards the purchase of equipment to get a 220 MHz repeater operational. This was made possible by the financial success of the hamfest.

A note about net operation: Net control stations, put traffic in ARRL message format to count as traffic.

Carla, KB4MDY, who lead the March of Dimes Walk-A-Thon project, thanked all the communicators who helped.

Andy, WB2YYH, Field Day Chairman, stated the event will be at the N.C. State Faculty Club picnic grounds. A packet set up is needed for additional points. There will be T-shirts printed. A novice/tech. station is planned. Sign up sheets were passed around.

Walter, KB4LWD, gave an update on the Constitutional Bicentennial. See p. 90 of this months QST for details of special events stations. See article on p. 11 also. QSL cards will be printed soon.

Norm, KN4G, who is revising the By-laws, gave an update. The Executive Committee will give their input at the next Board Meeting.

Reed, AB4W, explained the role of amateur radio with the Olympic Festival this summer. Help is needed with both planning and communications.

Chuck, K4HF, reported on a tremendous increase in activity on 220MHz, and 10M phone. The current novice application rate with the FCC is running 4 times higher than before the enhancement program began. Many old timers are comming up on 220 and 10M to help.

The program was on severe weather forcasting by Dennis Decker, KB4TYM, from N.O.A.A./ Nat. Weather Service at RDU.

The Hamfest review meeting concluded the club is over budget on estimated expenses (by approx. $500.) and has exceeded the estimate of income. A motion was made to authorize payments of excess expenses as long as they do not excede the difference between estimated income and actual income. This was seconded and called to a vote which passed.

A few prize drawings were given, then the meeting adjourned.

Sue Meyer Parks
RARS Secretary

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'NEW' LINE

by Bruce Eggers, WA9NEW
President, RARS

RARS HOSTS NWS AND AEROTRON AT THE JUNE MEETING

If you weren't there you missed a good one! First, Mr. Tony Gorse, the National Sales Manager for Aerotron, Inc., presented two state-of-the-art commercial grade VHF transceivers to NC Section Emergency Coordinator AB4W for use in the Skywarn program. Ed, WA4PEN, took action when Skywarn EC AIOK put out a call for the donation of a two meter rig for use at the NWS office at RDU. Hams have always used their own gear when called on to work a shift at RDU but it's a hassle to make sure that a rig is there.

Now, thanks to the efforts of Ed, and a BIG TNX to Aerotron, there will be a rig there when we need it.

TWO NEW HAMS ! !

With a long toot of the whistle to AA4TE and N4BYO, who volunteered to conduct Novice tests during the May meeting, we have two new hams!

WA4JWE's XYL, Anita, and a young lad named Renard Della-Faye, found on a local landline BBS by WD4RDT, both passed. We know Anita is planning on a quick upgrade if the VEC at Durham will accept our 610 and we sure hope Renard does the same. CONGRATULATIONS to BOTH. (Anita: I'm pleased to let you know that N4MCC is doing OK and has not quit his job.)

IT'S OLYMPIC FESTIVAL TIME

I trust that's not news. But it is a BIG DEAL. If you'd like to take part, contact AB4W.

BY-LAWS UPDATE

As noted before, KN4G has assumed the task of rewriting the By-Laws. I don't envy Norm. RARS is a different organization than it was at the time of the last revision.

You'll remember that you approved two changes in late '85. Dues were lowered and Novices became Full Members. Several other revisions have been suggested. If you've got some thoughts, give Norm a call or forever hold your piece.

CVRA-SERA ASSOCIATE MEMBERSHIP DOWN

The May issue of the CVRA-SERA Repeater Journal here and W4MOB says Associate Memberships are down from last year! Tar Heel hams are better represented than our fellow hams from the six sister states served by CVRA-SERA but we could do better! If you are new to repeater operations in the Ol' North State you've got an excuse for not knowing about our regional frequency coordinating body. But if you've been using the repeaters for a while and you're not a member, for shame, double shame.

Space permitting, the editor will print a copy of the membership application form elsewhere in this issue (as we do frequently). PLEASE give serious thought to supporting CVRA-SERA. Call me if you have questions.

DUES COMING DUE

It's been 18 months since RARS got into your pocketbook and it's time to dig deep. You've got to admit, $10 ain't bad. And don't forget, we've got a family membership for more than one ham in a household. There should be an SASE in your Exciter next month and you'll get one even if you don't need it. (Has to do with the rules we live by to use the bulk mailing permit.) So watch for it and 're-up' my mail.

RARS BUS TRIP TO ATLANTA?

It's not too late. The National Convention doesn't get much closer. Anybody interested in a charter trip?

DOCKET 87-14

Why would the Commission propose to take 2 MHz from the 220-225 MHz Ham band and give it to the land mobile service? Beats me! Clearly, this service is crowded. But in lieu of the current 25 MHz spacing allowed for each FM channel, state of the art technology provides for 5 kHz spacing and this is being done in some parts of the country. Add in the some tens of megahertz of space recently added for cellular mobile telephones and this NPRM just doesn't make sense. I trust some of you have sent in your comments. I'm pleased to report that RARS has. How could 2 MHz help?

CQ 220 DE WA4GEH

WA4GEH DE W4DW Interested in 220?
Yep.
Me too.
Got a rig?
Nope.
Me neither.
Well, scratch-scratch, how about a 2-meter to 220 transverter?
Transvert...who?
Yeah, you know, a little box about yay big that you add to your existing 2 meter rig that puts you on 220.
How do you go about getting one?
Well, I've heard some rumblings from certain RARS members that a homebrew transverter design is underway and there's a possibility of it being a club project.
You mean a bunch of people getting together and building these things like a Heathkit project just so they can use the new RARS 220 machine, the Hillsboro machine, and . . and . . and stir up a bunch of gossip and yacking and even talking to a crowd on new Novices on 220?
Yep . . . that's the general idea.
How does one get involved?
Catch 'GEH, 'PEN or 'NEW on 04/64 and express an interest so we can see who's up for a little fun. Transvert to the EXCITER next month for some technical details.

73, WA4GEH

RARS NET REPORTS

wa9new

While the RARS net is certainly an informal net and is intended to promote fellowship, it also serves as a traffic and training net, and net activities are reported to the Section Manager for inclusion in the Station Activities column in QST. So net reports to the net manager, in order to be counted as traffic, must be in ARRL message format. Not to say YOU, as net control, MUST put your net report in ARRL format, but IF you wish to count the net report to K4ABJ as traffic in your report, THEN it MUST be in ARRL format. And that's good practice. I'd encourage ALL RARS NCS's to do so. With the risk of embarrassing a few, let me note that Wally, KI4BP, takes the data each month from K4ABJ, puts it into ARRL format, and passes it to K4NLK, our STM. KI4BP knows how to format traffic. Believe me, it's a worthwhile skill to achieve, it's a worthwhile skill to practice. The RARS net report to the net manager is a good way to stay in practice. Give me a call if you want to hear a few horror stories on how hams can really screw-up some genuine emergency communications situations by getting on the air without the skill necessary to maintain a record of record communications. K4ABJ has full details.

CALL SIGNS ISSUED AS OF APRIL 1:

Extra	Adv	Tech/Gen	Novice
AA4ZS	KK4JE	N4FQZ	KB4YFD

RALEIGH AMATEUR RADIO SOCIETY MEMBERSHIP ROSTER

June, 1987

President.....Bruce Eggers, WA9NEW
Secretary.....Sue Meyer Parks, WB4USX

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Bailey, Bert	W4FMN
Ball, William F.	WD4RKQ
Baucom, James K.	K4CQG
Blackman, Corbett	KA4ZZO
Bliss, Peter	W8DTD
Boggs, J. Kenneth	KB4RV
Bordt, Ray	KA1CYF
Brack, Fred	N4ECU
Bradley, Ann M.	WA4APK
Bradley, Jim E	WA4AOO
Brame, Wallace	KI4BP
Brandberg, William	W2BDN
Brookshire, Jack	AA4FT
Brower, Roger	N4KDD
Brown, Charles E.	K4VLR
Brown, Clay	WA4JMQ
Browne, Alan	WA4AFB
Browne, Audrey	WB4ZSM
Brunn, Robert T.	SM0BRU
Buehlmann, Tim	N4IQA
Callery, John	N4OZL
Caudell, Benny L	N4AFO
Chambers, Walt	K4ZVK
Church, H.E.	W3EPA
Clapp, John O.	AA4MP
Cobb, Grover C.	W4YZX
Cohen, Gerry F.	N4GC
Coleman, Bill	KA4DAP
Conley, David	WB4YJQ
Cook, Edward E	KB4QIL
Cooke, Steven	N4CWC
Corns, Bob L/M	K4MC
Courtney, Dianne	WB4INM
Craig, Ray	N4KXV
Cranwell, Pete	WA2EIW
Cranwell, Sally	KB4MEA
Creed, Elizabeth L.	KB4VTL
Daniels, Bain	KA4ZZJ
Demcko, Ron	WA2TBQ
Dennison, Robert	KB4MDR
Dickson, Ken	N4CYQ
Dieter, Donn	K4GHJ
Dillard, Wink	KC4PZ
Doligalski, Tom	N9CGD
Dowty, Calvin	
Drake, Rowlan	KB4QQJ
DuBreck, Jim	N4BYO
Dunn, S.W.	WB4ICF
Edwards, Billy	K4BWC
Eggers, Bruce L/M	WA9NEW
Eller, Rick	N4RE
Feehan, William	WB4EOV
Fewell, Dennis	AI7G
Foggrassy, Peter	KB6EUD
Forehand, Paul	N5GCZ
Forgeng, Joseph T.	N4LQW
Frate, Cynthia W.	
Fried, John P.	W4WWD
Galler, Bill	KB4QVL
Gleason, Carla	KB4MDY
Gleason, Chuk	KB4MDZ
Goldberg, Eric	WD4LCL
Graham, Tom L/M	WB4WII
Hales, Wm. M.	W4FNB
Harris, Donn R.	WB2KPM
Hay, Gerald M.	KI4UP
Henderson, Joe	WD4MRD
Hilburn, Joe	K4UOO
Hodges, Jesse L/M	W4JG
Hollingsworth, Allen	KB4ILY
Homovec, Joseph	WA4ENZ
Ingraham, Robert	KK4EV
Jackson, Richard	KB4RZ
Johnson, Bob,	AA4L
Johnson, Bruce A.	WA6IDN
Johnson, Jim	W4JUG
Johnson, Wynn	
Joseph, John N.	N4PSO
Joyner, Dexter	N4PSJ
Kellum, Sonny	WA4JWE
Keys, Robert D.	NA4G
Klino, Howard L	K2IMO
Laur, Steven A	N4HKR
Lenley, Don	N4PCR
Littlewood, Chuck	K4HF
Logan, Mike	WA4FFs
Lyday, Russell	
Lympany, Steve	WA3TMR
Mangogian, Vincent	WA2SRZ
Mangum, L. Scott	
Mayfield, Johnnie	WA9SZL
McCune, Willard	W2IRC
McDermott, Father	K4HJK
McDowell, Wm. G.	K4CIA
McLean, Lyman K.	KB4LEN
Meffert, Robert F.	N4PNC
Mentha, John	K4FAD
Meoli, Larry	N4MAE
Meyer, Stuart L/M	W2GHK
Moates, Roger	W3EZR
Mozingo, Brett W.	
Mulligan, Jim	N4ODA
Mullis, Al	K4GOE
Nann, Donald H.	
Neely, Alan	K4QZN
Newell, Larry	N4MCC
Oates, Ron,	AA4VK
Parker, Douglas C.	N4PPN
Parker, Jeff	WA1WXL
Parker, Tom	N4NYB
Parks, Sue Meyer	WB4USX
Patterson, Wm. B.	N4MGT
Paul, Jim	W6LPQ
Peacock, George S.	W4WYV
Pearson, Cecil	KA4JKA
Peeler, Jim	WA4YOM
Pendleton, Lynn	K4NYY
Peterson, John W.	KI4VZ
Plaks, Alan	KA4NSA
Plaks, Norman	KN4G
Porter, Andrew	KA7OXQ
Porter, Clayton	KA4BWX
Price, Walter	N4PIJ
Raiter, Terry	KB4HYF
Ransier, Bill	N1BA
Ransom, Rollin M.	NF4P
Rataski, Chet, Jr.	KB4LAF
Reams, Patrick	KB4VYP
Reams, Ronald G.	WA4MJF
Reams, Sherry L.	KB4EXL
Reynolds, Matt	KB2ACE
Reynolds, Paul	W2EZS
Rice, Carl H.	K4IWX
Riviere, Jim	KB4VTI
Roberts, David L.	K5RZ
Roebuck, Michael J.	KB4NUH
Rogers, Annette	KB4AQH
Rogers, Greg	WA0UWS
Rogers, Lee	WB4DRJ
Saah, Joe	WB5ZPQ
Shaw, Morton K.	W4MJN
Short, Walt	N4SW
Silver, Marty	NY4H
Singer, Andy	WB2KYH
Smith, Paul	N4LQR
Snyder, Kerry G.	KK4EF
Starnes, Michael L.	WB4UYT
Starnes, Sherman	W4TZU
Stokley, Richard	N4OGZ
Stratemeyer, Art	NW4B
Stroup, Mike	K4DRT
Swain, John, Jr.	WD4ODT
Swanson, Thomas	N4IZE
Swindell, Charles	WB4DCM
Teague, Robert M.	K4HKQ
Thacher, Pete	N4HQZ
Thacher. Coleman	W1HZQ
Thomas, John	KK4JB
Thomson, Douglas	KB4OQO
Tissot, Raymond	W6SRF
Turner, Joe	
Tuttle, Dave	KB4OKB
Van Gieson, Walter	KB4LWD
Walker, Joel A.	AA4TE
Waters, Timothy G.	
Watkins, Ardie C.	N4OIC
Weatherford, Bob	K1ADV
Weaver, James B	KA2ZQU
Weaver, Jim	KA4YYZ
Weinel, Bill	KB4VTH
Weiss, Frank L/M	KY4W
Weiss, Lawrence	KB4DLG
White, Joe	WA4GIR
Whitehead, Leon W.	KB4KSA
Wicker, Phil, L/M	W4ACY
Wiggs, Gregory B.	KB4NIC
Williams, Jack	KB4RW
Williams, Lynn	WA4GEH
Willis, Bruce D.	WD4DTI
Wisdom, Jim	K4HCG
Yakamavich, Vince	AA4NY
Young, Lawrence R.	K4LXV

ALPHABETICAL LISTING BY CALL SIGN

			Frate, Cynthia W.	4328 Craddock Rd	Raleigh 27612	H:783-6151	B:783-1480
			Johnson, Wynn	11305 Rums Hill	Raleigh 27614	H:847-5606	
			Lyday, Russell	4739 Rembert Dr	Raleigh 27612	H:787-4137	B:782-8703
			Mangum, L. Scott	4723 Heritage Dr	Durham 27712	H:479-5591	B:541-7021
			Nann, Donald H.	1313 Ravenhurst Dr	Raleigh 27606	H:847-1716	
			Waters, Timothy G.	6711 Chauncey Dr	Raleigh 27615	H:846-6269	B:541-5859
			Mozingo, Brett W.	425 Morrison Ave.	Raleigh 27608	H:833-4148	B:834-1009
		N	Turner, Joe	4400 Wingate Dr.	Raleigh 27609	H:876-1696	B:549-6571
		T	Dowty, Calvin	P.O. Box 728	Garner 27529	H:779-7552	B:779-4670
K4	ABJ	A	Babcock, James	611 Vick Ave	Raleigh 27612	H:787-7816	
KB2	ACE	N	Reynolds, Matt	705 Radburn Pl.	Raleigh 27609	H:848-3894	
W4	ACY	A	Wicker, Phil, L/M	4821 Hilltop Dr	Greensboro 27407	H:299-9187	
WA4	AFB	G	Browne, Alan	2401 Guilford	Baltimore MD 21218		
N4	AFU	A	Caudell, Benny L	506 Emerson Dr	Raleigh 27609	H:787-5936	B:848-5387
WA4	AOO	E	Bradley, Jim E	Rt. 1, Box 145	Apex 27502	H:779-8840	B:831-3012
WA4	APK	E	Bradley, Ann M.	Rt. 1, Box 145	Apex 27502	H:779-8840	B:733-4893
KB4	AQH	N	Rogers, Annette	5312 Kirkwood Ct	Raleigh 27609	H:787-7486	
NW4	B	E	Stratemeyer, Art	9620 Barton Crk. Rd	Raleigh 27614	H:847-0979	B:848-3876
N1	BA	E	Ransier, Bill	8200 Hambledon Ct	Raleigh 27615	H:846-2692	
W2	BBN	G	Brandberg, William	714 Glascock St	Raleigh 27604	H:833-9640	B:737-3661
KI4	BP	A	Brame, Wallace	912 N. Blount St	Raleigh 27604	H:828-5088	
SM0	BRU	E	Brunn, Robert T.	414 Oakridge Rd	Cary 27511	H:469-3347	
K4	BWC	A	Edwards, Billy	4209 Live Oak Rd	Raleigh 27604	H:832-5151	B:787-0363
KA4	BWX	T	Porter, Clayton	623 Woodland Rd	Raleigh 27603	H:772-5635	B:828-2581
N4	BYO	G	DuBreck, Jim	1209 Shelley Rd	Raleigh 27609	H:781-9437	B:481-8509
N9	CGD	G	Doligalski, Tom	1110 G Lupine Ct	Raleigh 27606		
K4	CIA	E	McDowell, Wm. G.	3709 Huntleigh Dr.	Raleigh 27604	H:876-2686	B:733-7834
K4	CQG	A	Baucom, James K.	520 Mills St.	Raleigh 27608	H:834-6682	B:992-3682
N4	CWC	A	Cooke, Steven	4135 Camelot Dr.#B2	Raleigh 27609	H:782-4618	B:467-5100
KA1	CYF	T	Bordt, Ray	5304 Collingswood Dr	Raleigh 27609	H:787-7786	
N4	CYQ	G	Dickson, Ken	4809 Sweetbriar Dr	Raleigh 27609	H:781-8519	
KA4	DAP	T	Coleman, Bill	% WIST FM PO Box 460 -	Lobelville, TN 37097		
WB4	DCM	A	Swindell, Charles	6805 Perkins Dr	Raleigh 27612	H:848-0410	B:733-2032
KB4	DLG	N	Weiss, Lawrence	17401 Spring Tree	Boca Rat FL 33431	H:(305)994-8017	
WB4	DRJ	A	Rogers, Lee	5312 Kirkwood Ct	Raleigh 27609	H:787-7486	B:254-2097
K4	DRT	G	Stroup, Mike	4716 Stonehill St	Raleigh 27609	H:787-6729	
W8	DTD	A	Bliss, Peter	8701 Kings Mill Pl	Raleigh 27614	H:847-8704	B:872-4477
WD4	DTI	G	Willis, Bruce D.	Rt. 4, Box 13	Louisburg 27549	H:496-6230	B:662-7340
KI4	DV	A	Weatherford, Bob	200 Sandhurst Rd	Raleigh 27615	H:846-5958	B:850-9976
N4	ECJ	G	Brack, Fred	500 Emerywood Dr	Raleigh 27609	H:847-7268	B:469-6141
KK4	EF	A	Snyder, Kerry G.	5105 Fort Sumter Rd	Raleigh 27606	H:859-9587	
WA2	EIN	E	Cranwell, Pete	11212 Crestmont Dr	Raleigh 27612	H:848-9136	
WA4	ENZ	A	Homovec, Joseph	4135 Rockingham St	Raleigh 27609	H:787-2150	B:872-3020
WB4	EOV	G	Feehan, William	4412 Yadkin Dr	Raleigh 27609	H:781-6575	B:782-0183
W3	EPA	A	Church, H.E.	117 Wiltshire Dr.	Pittsburgh PA 15241	967-6915 Durham	
KB6	EUD	T	Foggrassy, Peter	309 Caparthian Way	Raleigh 27615	H:847-3405	
KK4	EV	A	Ingraham, Robert	P.O. Box 31201	Raleigh 27622	H:848-1382	B:544-4136
KA1	EVM	T	Anastasio, Tony	2708 Half Hitch Tr	Raleigh 27615	H:847-2126	B:549-7311
KB4	EXL	T	Reams, Sherry L.	RFD 2, Box 181	Wendell 27591	H:266-4434	B:365-6669
W3	EZR	E	Moates, Roger	3300 Barnsley Lane	Raleigh 27604	H:876-0691	B:834-5271
W2	EZS	G	Reynolds, Paul	705 Radburn Pl.	Raleigh 27609	H:848-3894	
K4	FAD	E	Mentha, John	5124 Swisswood Dr	Raleigh 27612	H872-0084	
1A4	FFS	A	Logan, Mike	Rt 4 Box 375-27	Wake Forest 27587	H:556-0213	
W4	FMN	E	Bailey, Bert	701 Currituck Rd	Raleigh 27609	H:787-1643	B:772-0551
W4	FNB	G	Hales, Wm. M.	3209 Dell Dr	Raleigh 27609	H:782-2522	
AA4	FT	E	Brookshire, Jack	Rt. 2, Box 472	Lenoir 28645	H:(704)632-6303	
AI7	G	E	Fewell, Dennis	201 Lynnfield	Garner 27529	H:779-3489	B:833-4691
KN4	G	E	Plaks, Norman	1205 Country Ridge	Raleigh 27609	H:876-4192	B:541-3084
NA4	G	E	Keys, Robert D.	7604 Mineshaft Rd	Raleigh 27609	H:847-0069	B:737-3267
N4	GC	E	Cohen, Gerry F.	8909 Taymouth Ct	Raleigh 27612	H:848-9186	B:733-6660
N5	GCZ	T	Forehand, Paul	4210-C Lynn Point	Raleigh 27612	H:781-6711	B:254-0791
WA4	GEH	A	Williams, Lynn	132 Canyon Rd	Clayton 27520	H:553-4793	B:850-3093

GHJ	G	Dieter, Donn	4809 Radcliff Rd	Raleigh 27609	H:782-5776	B:782-5776
GHL	E	Meyer, Stuart L/M	2417 Newton St	Vienna VA 22180		
GIR	E	White, Joe	4320 Ryegate Dr	Raleigh 27604	H:876-5856	B:541-6566
GOE	A	Mullis, Al	1803 Chatburn Dr	Houston, Tx 77077	H:(713) 493-5431	
H	E	Silver, Marty	3118 Eton Rd	Raleigh 27608	H:787-9882	
HCG	G	Wisdom, Jim	3308 Cobblestone Ct	Raleigh 27607	H:782-4098	B:782-4098
HF	E	Littlewood, Chuck	2005 Quail Ridge Rd	Raleigh 27609	H:872-6555	B:850-6100
HJK	G	McDermott, Father	RFD 1, Box 50-D	Glasgow VA 24555		
HKQ	G	Teague, Robert M.	2900 Glen Burnie	Raleigh 27607	H:781-9699	B:829-0155
HKP	G	Laur, Steven A	5705 Old Forge Cir	Raleigh 27609	H:872-2694	B:836-6094
HQZ	A	Thacher, Pete	1108 Steinbeck Dr	Raleigh 27609	H:876-4073	B:828-6260
HYF	N	Raiter, Terry	3708 Oak Park Rd	Raleigh 27612	H:782-1233	
HZQ	A	Thacher. Coleman	417 Myrtlewood Dr	Raleigh 27609	H:871-1532	
ICF		Dunn, S.W.	Rt 3 Box 206	S Boston VA 24592	H:753-2923	
IDN	G	Johnson, Bruce A.	2216 Countrywood Rd	Raleigh 27615	H:846-2315	B:846-1149
ILY	T	Hollingsworth, Allen	2005 Cardinal Acres	Clayton 27520	H:553-5717	B:872-8710
IMO	G	Klino, Howard L	3112 Comstock Rd	Raleigh 27604	H:876-6471	B:291-5800
INM	A	Courtney, Dianne	Wade Dr. Box 56-1	Apex 27502	H:362-7037	B:541-2370
IQA	T	Buehlmann, Tim	1314 Chaney Rd	Raleigh 27606	H:851-7738	B:254-9560
IRC	G	McCune, Willard	5401 Oldtowne Rd	Raleigh 27612	H:781-3190	
IWX	G	Rice, Carl H.	1807 Rankin St	Raleigh 27604	H:834-5321	B:836-7673
IZE	G	Swanson, Thomas	5729 Wintergreen Dr	Raleigh 27609	H:782-0791	B:872-8110
JB	A	Thomas, John	5228 Cedarwood Dr	Raleigh 27609	H:782-1609	B:254-9791
JG	A	Hodges, Jesse L/M	310 Pogue St	Raleigh 27607	H:833-0229	
JKA	T	Pearson, Cecil	Rt. 1, Box 236-I	Apex 27502	H:772-8330	B:779-0809
JMQ	A	Brown, Clay	804 Buckle Ct	Raleigh 27609	H:846-7499	BB:992-4324
JUG	A	Johnson, Jim	815 Coleman St	Raleigh 27610	H:833-9189	
JWE	G	Kellum, Sonny	208 Chatterson Dr	Raleigh 27615	H:846-7455	B:787-4053
KDD	G	Brower, Roger	411 W. Morgan St	Raleigh 27603	H:821-3991	B:821-3991
KPM	T	Harris, Donn R.	Rt 3 Box 326	Raleigh 27603	H:772-5130	
KSA	A	Whitehead, Leon W.	548 S. Main St	Wake Forest 27587	H:556-0314	B:556-0314
KXV	T	Craig, Ray	1305 Kintyre Cir	Raleigh 27612	H:782-4274	B:543-9733
KYH	E	Singer, Andy	917 7th Ave #E306	Garner 27529	H:772-5454	B:934-9711
L	E	Johnson, Bob,	11305 Rums Hill	Raleigh 27614	H:847-5606	B:543-3837
LAF	E	Rataski, Chet, Jr.	9600 Barton Creek	Raleigh 27614	H:847-1122	B:848-6247
LCL	T	Goldberg, Eric	7901 Audubon Dr	Raleigh 27609	H:847-1350	B:836-5611
LEN	T	McLean, Lyman K.	806 Hargrove St.	Henderson 27536	H:438-7002	
LPQ	A	Paul, Jim	2212 Countrywood Rd	Raleigh 27615	H:847-5842	B:848-0845
LQR	T	Smith, Paul	P.O. Box 1281	Garner 27529	H:772-0960	B:833-7508
LQW	G	Forgeng, Joseph T.	3720 Marlin Ct	Raleigh 27604	H:872-8853	B:847-3333
LWD	A	Van Gieson, Walter	201 Walden Pl	Raleigh 27609	H:782-1424	B:543-0843
LXV	A	Young, Lawrence R.	8804 Weathersfield Ct	Raleigh 27612	H:847-8558	
MAE	T	Meoli, Larry	8205 Oak Leaf Ct	Raleigh 27609	H:848-7899	B:890-5632
MC	E	Corns, Bob L/M	1519 Oblerlin Rd	Raleigh 27608	H:828-6005	
MCC	T	Newell, Larry	5728 Carriagehouse	Apex 27502	H:779-1589	B:248-2394
MDR	T	Dennison, Robert	625 Shadywood Ln	Raleigh 27603	H:772-5595	B:834-9711
MDY	T	Gleason, Carla	215 Allison Dr	Knightdale 27545	H:266-5273	B:553-5076
MDZ	T	Gleason, Chuk	215 Allison Dr	Knightdale 27545	H:266-5273	B:834-5251
MEA	T	Cranwell, Sally	11212 Crestmont Dr	Raleigh 27612	H:848-9136	
MGT	A	Patterson, Wm. B.	1903 Alyssum Pl.	Winston-Salem 27107	H:761-1185	
MJF	A	Reams, Ronald G.	RFD 2, Box 181	Wendell 27591	H:266-4434	B:733-4430
MJN	A	Shaw, Morton R.	5509 Lambshire	Raleigh 27612	H:787-0916	
MP	E	Clapp, John O.	801 Valerie Dr	Raleigh 27606	H:859-0787	B:737-2184
MRD	G	Henderson, Joe	2221 Coley Forest Pl	Raleigh 27607	H:787-6624	
MY	E	Yakamavich, Vince	3405 Huntleigh Dr	Raleigh 27604	H:872-3740	B:878-9510
MYB	G	Parker, Tom	2500 Dunhaven Dr	Garner 27529	H:779-1457	
NEW	A	Eggers, Bruce L/M	1141 N. Spr. Garden	Raleigh 27603	H:779-0266	
NIC	T	Wiggs, Gregory B.	11000 Falls Neuse Rd	Raleigh 27614	H:847-0201	B:365-4444
NSA	N	Plaks, Alan	1427 Evergreen Dr, Apt 203 - Palatine, IL 60067 - 359-6264			
NUH	E	Roebuck, Michael J.	2216 Regina Dr	Raleigh 27603	H:772-9051	B:836-5411
NYV	E	Pendleton, Lynn	3617 Penny Court	Raleigh 27606	H:829-9449	B:836-6228
ODA	A	Mulligan, Jim	1403 Buckhorn Rd	Garner 27529	H:779-1997	B:469-2500
ODT	A	Swain, John, Jr.	3420 Churchill Rd	Raleigh 27607	H:787-5417	B:833-3826

N4	OGZ	T	Stokley, Richard	4301 Bayliner Dr.	Raleigh 27604	H:872-1898 B:890-1289
N4	OIC	G	Watkins, Ardie C.	8516 Bells Lake Rd	Apex 27502	H:772-7071 B:755-6279
KB4	OQO	N	Thomson, Douglas	1109 Queensferry Rd	Cary 27511	H:469-3380 B:469-9323
WA4	OTA	A	Alexander, Tom	6800 Jean Dr	Raleigh 27612	H:848-0669 B:828-7026
KA7	OXQ	N	Porter, Andrew	805 W. Johnson	Raleigh 27605	H:828-5012 B:890-1776
N4	OZL	T	Callery, John	3621 Bond St	Raleigh 27604	H:833-3447
NF4	P	E	Ransom, Rollin M.	2447 Fairway Dr	Raleigh 27603	H:779-5021
N4	PCR	G	Lenley, Don	316 Westridge Dr	Raleigh 27607	H:783-6080 B:872-9500
WA4	PEN	T	Alderman, Ed	3101 Julian Dr	Raleigh 27604	H:876-0340
N4	PIJ		Price, Walter	P.O. Box 37736	Raleigh 27627	H:481-3856 B:469-5493
K1	PLR	A	Arsenault, Harry	48 Crane Rd. N	Stamford Ct 06902	
N4	PNC	G	Meffert, Robert F.	4409 Berini Dr	Durham 27705	H:383-4060 B:549-0611
N4	PPN	T	Parker, Douglas C.	1228 Somerset Rd.	Raleigh 27610	H:833-9682 B:878-6283
N4	PSJ	T	Joyner, Dexter	9801 Honeycutt Rd	Raleigh 27614	H:847-1359 B:772-0551
KB4	OKB	A	Tuttle, Dave	S. Bend Mobile H Pk	Clayton 27520	H:553-5224 B:833-6417
N4	PSO	T	Joseph, John N.	1410 Steinbeck Apt 9	Raleigh 27609	H:872-2527
KC4	PZ	A	Dillard, Wink	11701 Strickland Rd	Raleigh 27612	H:846-1946
KB4	QIL	C	Cook, Edward E	Rt 2, Box 69AA	Holly Spr. 27540	H:878-5621 B:362-2156
KB4	QQJ	G	Drake, Rowlan	308 W. Aycock St	Raleigh 27608	H:362-5580 B:467-1108
KB4	QVL	N	Galler, Bill	2101 Nancy Ann Dr	Raleigh 27607	H:787-7756 B:737-2331
K4	QZN	G	Neely, Alan	122 Martindale Dr	Youngsville 27596	H:556-3253 B:556-3101
N4	RE	E	Eller, Rick	3813 Hidden Branches	Raleigh 27612	H:847-6210 B:549-7157
WD4	RKQ	T	Ball, William F.	716 E. Green St.	Franklinton 27525	H:494-2544 B:876-4400
KB4	RV	A	Boggs, J. Kenneth	4333 Pickwick Dr	Raleigh 27612	H:787-1127
KB4	RW	A	Williams, Jack	1000 Winona Rd	Raleigh 27609	H:872-7329
KB4	RZ	A	Jackson, Richard	3347 Alamance Dr	Raleigh 27609	H:782-1616
K5	RZ	E	Roberts, David L.	106 Firewood Cir	Raleigh 27607	H:859-0294 B:832-5599
K6	SL	E	Anderson, Rolf	2836 Mattlyn Ct	Raleigh 27612	H:848-4033 B:829-3077
W6	SRF	G	Tissot, Raymond	4508 Embleton Dr	Raleigh 27612	H:782-9681
WA2	SKZ	A	Mangogian, Vincent	1016 Wyldewood Rd	Durham 27704	H:471-2149 B:479-3340
N4	SW	E	Short, Walt	5515 Castlebrook Dr	Raleigh 27604	H:876-1166 B:836-5355
WA9	SZL	G	Mayfield, Johnnie	302 Poplar Box 1273	Wendell 27591	H:365-6291 B:553-3571
WA2	TBQ	A	Demcko, Ron	2404 Trusty Tr. Rd	Raleigh 27615	H:848-4717 B:878-6224
AA4	TE	E	Walker, Joel A.	510 Madison Ave	Cary 27511	H:467-6749 B-755-6279
WA3	TMR	E	Lympany, Steve	7821 Breckon Way	Raleigh 27615	H:847-9456 B:775-5401
W4	TZU	A	Starnes, Sherman	Rt. 1, Box 99	Franklinton 27525	H:494-5169 B:850-6254
K4	UOO	A	Hilburn, Joe	5013 Elkwood Ct	Raleigh 27612	H:876-5269 B:543-8605
KI4	UP	A	Hay, Gerald M.	11924 Appaloosa Run	Raleigh 27612	H:876-8073 B:850-6414
WB4	USX	G	Parks, Sue Meyer	3 Custer Circle	Durham 27713	H:544-7952 B:549-8641
WA0	UWS	E	Rogers, Greg	7808 Kitty Lane	Raleigh 27615	H:850-6113
WB4	UYT	E	Starnes, Michael L.	Rt. 2, Box 279	Knightdale 27545	H:266-3567 B:878-9510
AA4	VK	E	Oates, Ron,	9908 Waterview Rd	Raleigh 27615	H:847-3279 B:836-6063
KY4	W	E	Weiss, Frank L/M	17401 Spring Tree	Boca Rat FL 33431	H:(305)994-8017
K4	VLR	A	Brown, Charles E.	321 Trotters Ridge	Raleigh 27614	H:847-7531 B:543-0869
KB4	VTH	T	Weinel, Bill	2618 Davis St	Raleigh 27608	H:781-4033 B:821-8555
KB4	VTI	A	Riviere, Jim	8420 Two Courts	Raleigh 27612	H:848-6637 B:829-4305
KB4	VTL	N	Creed, Elizabeth L.	811 Chamberlain St	Raleigh 27607	H:832-1004 B:737-7840
KB4	VYP	N	Reams, Patrick	RFD 2, Box 181	Wendell 27591	H:266-4434
KI4	VZ	A	Peterson, John W.	2813 Henslowe Dr	Raleigh 27603	H:839-8883 B:362-4800
WB4	WII	G	Grahem, Tom L/M	Rt. 1 Vacation Vill	Swansboro 28584	H:(919)326-3151
W4	WWD	A	Fried, John P.	102 Pebblebrook	Knightdale 27545	H:266-5135 B:828-6201
WA1	WXL	T	Parker, Jeff	7901 Twin Oaks Ct	Raleigh 27609	H:848-1208 B:787-9344
W4	WYV	E	Peacock, George S.	6604 Johnsdale Rd	Raleigh 27609	H:876-0071 B:781-1961
WB4	YJQ	A	Conley, David	5912 N. Hills Dr	Raleigh 27609	H:787-6278 B:836-7071
WA4	YOM	A	Peeler, Jim	3513 Leonard St	Raleigh 27607	H:787-6036 B:737-3951
KA4	YYZ	T	Weaver, Jim	4301 Waterbury Rd	Raleigh 27604	H:876-4148
W4	YZX	E	Cobb, Grover C.	6120 Winthrop Dr	Raleigh 27612	H:787-5900 B:737-2512
WB5	ZPQ	A	Saah, Joe	114 Village Ct	Garner 27529	H:779-5659
KA2	ZQU	G	Weaver, James B	4301 Waterbury Rd.	Raleigh 27604	H:876-4148
WB4	ZSM	G	Browne, Audrey	4419 Gates St	Raleigh 27609	H:787-4299
K4	ZVK	G	Chambers, Walt	4301 James Rd	Raleigh 27604	H:876-6306
KA4	ZZJ	N	Daniels, Bain	207 Dixie Trail	Raleigh 27607	H:828-5703
KA4	ZZO	T	Blackman, Corbett	5705 Dean Ave	Raleigh 27604	H:876-1793 B:834-5271

★ ★ ★ PACKET RACKET ★ ★ ★

Journal of:
Wake Digital Communications Group

DEVELOPING NTS PACKET RADIO PICTURE

Reprinted, in part, from the ARRL Field Forum V.3, N.2; April, 1987

As part of ARRL's effort to promote standards for National Traffic System (NTS), traffic handling via established and emerging packet radio networks across the country, the league is circulating an initial draft to all Section Managers, Section Traffic Managers and NTS Officials for review and comment. It is based on expert input from many in the Field who have been experimenting with NTS/packet routing in recent months.

The draft plan calls for one Primary Section Node, packet station with a BBS, for each ARRL Section (in most cases, one per state). This primary station would be the receiving point for all incoming traffic to the section, and then disburse it to the various areas within the state.

In order for any ham to send traffic via the NTS/Packet network, all he/she would need to do is the sign on to his/her local BBS and leave the message for: NTSxx, where xx is the two letter postal abbreviation for the destination state. Each BBS would have routing tables that look at NTSxx and know which route, and to which BBS, to forward the message on its way. The message would work its way, on both HF and VHF, through the packet network to the primary station for that NTSxx. This would be done automatically via the Store/Forward capabilities of the BBSs in the network. Once the message arrives on a BBS within a local phone area of the city of destination, a ham will sign on to that BBS, pull the message off and deliver it. The only manual intervention needed is the ham at the origination end entering the message AND the ham of the destination end delivering the message. In fact, the FCC requires that a licensed person be at both ends of the network to input and output. The rest is all done with mirrors!

The incorporation of packet radio into NTS has already started on the NTS side, as far as the management of such a system. The NTS Eastern Area Staff has recommended that "All packet links between Section Nodes are to be managed by a Region Packet Manager (RPM), appointed by the Area Staff, whose duties include: Maintenance of the packet links between NTS Sections Nodes within the NTS Region, and the reporting of packet link activity as a new statistic." (Note: Section means a state or part of a state; region is a collection of Sections. NC is in the fourth region along with VA, SC, GA, FL and West Indies. An Area is a collection of regions. There are three Areas in the US; Pacific, Central and Eastern.)

It is hoped that all NTS Regions will follow the EAS lead. PRMs could and should encourage each Section within the Region to establish a Section Node to receive NTS traffic if one doesn't already exist. They could encourage daily clearing by formal liaison stations of the Section and Region Node(s) in the Region to establish and maintain appropriate auto-forwarding information.

They should establish and maintain a Region Node for receiving traffic coming into the Region, and as a first stop for traffic leaving the Region. Finally, they should work with other Region Packet Managers, perhaps under the guidance of the NTS Area Packet Manager (APM), to manage Region-to-Region traffic flow.

Will the Packet Radio Network replace NTS? My answer is: No. It will be the NTS of the future. The NTS of today will provide the structure and discipline, along with the management of the Packet Network. What will happen to all the hams in NTS today? Well, we are still needed to input and output the network, per the FCC. We are also needed to set up and manage the network. I believe that as the traffic handling capability of the system increases, so will the traffic. As the traffic increases, more nodes are necessary, and so on.

That's my opinion. What's yours?

73 - Will Harper, K4IWW

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BERT'S BEAT

WITH

BERT BAILEY, W4FMN

FIBER OPTIC COMMUNICATIONS*

Lots have been said about this new development in electronics. Our Carl W4HJR is our expert but he's not writing for the EXCITER these days so I will fill in the best I can. Any queries, see Carl, he of the monstrous antennas next to the ivy-covered,cloistered halls--Carroll JHS.(Anybody checked to see how many hams and EEs have matriculated at Carroll?) The first thing that amazed me about fibers was the fact that there is no crosstalk,-and no QRM during storms and millions of QSOs can be accommodated on these hairsized strings. Still, replace coax?Never!---However, how does fiber optics do all these things? Well, it is used with the same stages we have always associated with coax and open wire line. The transmitter sends energy to the "pipe" but the components are not charges but-----PHOTONS. And photons are not susceptible to gremlins like crosstalk and noisy QRM we have been used to. The modulator is normally digital.This format is more receptive to fibers.To impress a signal on a carrier,the digital type need only turn the source off or on.Instead of the typical electronic oscillator used at RF, fiber optics use a laser diode or a LED.Info being transmitted is contained in the variation of optic power.This novel technique is called IM-Intensity Modulation.What was called the channel is now a glass or plastic fiber-------CHANNEL. Like microwave waveguides,the fiber reflects particles from its walls. But the reflections are not of charges but of photons.Now. when the signal gets to where it is going, it is demodulated or detected just like RF. But the difference now is in what the detector detects----light. So, a photodiode or another type of photodetector is used. In this most brief discussion it can be seen that, just like the transition from VTs to solid state, all EE was not plunged into chaos. We just called grid current, base current and called the new devices current-controlled instead of voltage-controlled. Ohm's Law was not violated,it was just "same song, second verse". So maybe we can just call fiber optics "same song, fourth verse".(What's the 3d verse????????Computers!!!!!)

THE CARY AMATEUR RADIO CLUB

FIFTEENTH ANNUAL, MID-SUMMER SWAPFEST

SATURDAY, JULY 18, 1987, 9:00 AM - 3:00 PM

VFW BUILDING, Reedy Creek Rd. CARY, NC - NEW LOCATION - AIR CONDITIONED

* * * *

YL RARS

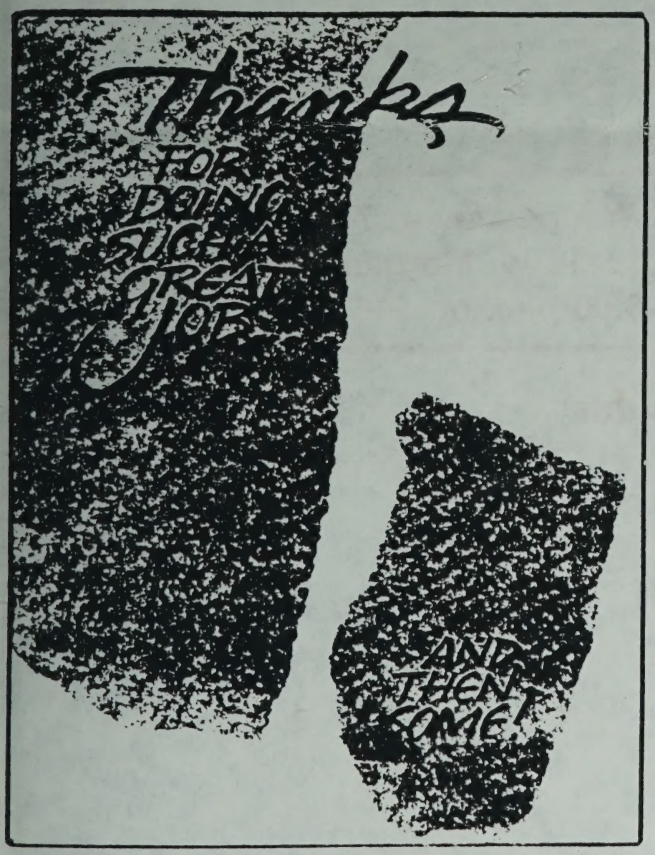
YL RARS met on Thursday, May 14 at K & W Cafeteria in Cameron Village and enjoyed an excellent presentation on Color Coordination by Vivian Johnson as well as good food and good company. The members voted to suspend meetings for the summer and pick up again for a September meeting. We discussed fall picnic plans and are looking into the possibilities for a suitable site. We are also considering having a cook-out with hamburgers and hot dogs, asking members to bring slaw, potato salad, chile or dessert to fill in. We'll be letting the membership know of our plans in plenty of time. Have a happy summer. We'll be expecting you for our YL RARS meeting in September. Watch this space for time and location.

FOR SALE: TH3 Jr. Tri-band beam antenna, rated 600W PEP. Used only twice on DX-peditions to J6L and FS. Excellent condition. Replacing with 2Kw beam.
Ron Oates, AA4VK
847-3279

FOR SALE: 16 el 2 m beam with rotor & tripod roof mount negotiable. Gorbar 5 kW continuous rated battery, start generator, 2 yrs old, $425. Brad, K4MR, 481-1888.

JOIN/RENEW YOUR ARRL MEMBERSHIP
THROUGH RARS AND SAVE
SEE N4IQA FOR DETAILS

FROM THE STUDENTS TO ALL THE VOLUNTEER INSTRUCTORS OF THE RECENT NOVICE/TECHNICIAN CLASS



Thanks for your time, patience & encouragement!

Anita Kellum
Mark Workman
Rebecca Lusson
Joe Kay
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SPECIAL SERVICE CLUB

RARS meets each first Wednesday at 7:30 at First Presbyterian Church, 111 W. Morgan Street
RARS meets nightly at 8:00 p.m. on 146.04/64

Calendar

June 3 - Regular RARS Meeting
1st Presby. Church 7:30 pm

June 7 - Manasas, Va. Hamfest

June 17 - RARS Advisory Board Mtng
7:30 NCSU Faculty Club
All members welcome!

June 27, 28 - ARRL Annual Field Day
Exercise - RARS, WB2KYH

July 10-12 - ARRL Nat'l Convention
Atlanta, Georgia

July 18 - Cary, NC Swapfest

Aug 1, 2 - Asheville, NC Hamfest